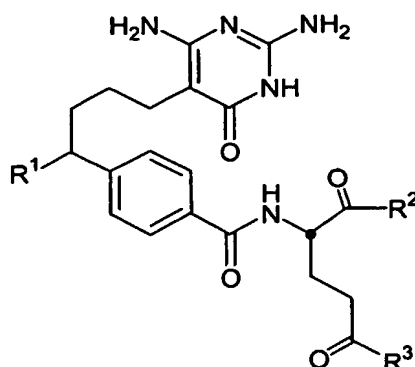


What is claimed is:

1. A compound represented by the following structure:



10 wherein:

R¹ is a radical selected from the group consisting of -C(O)H, -CH₂OH, -CH=NNMe₂, -C(O)CF₃, and -CH(OH)CF₃;

15 R² is a radical selected from the group consisting of -OH, -OtBu, glutamyl, and oligoglutamyl;

R³ is a radical selected from the group consisting of -OH, -OtBu, glutamyl, and oligoglutamyl;

each glutamyl being independently represented by the formula:

-NHCH(C(O)R⁴)(CH₂)₂C(O)R⁵, wherein R⁴ and R⁵ are each radicals

20 independently selected from the group consisting of -OH and -OtBu; each oligoglutamyl having at least one terminal glutamyl and between one and four non-terminal glutamyl residues;

each terminal glutamyl being independently represented by the formula

-NHCH(C(O)R⁴)(CH₂)₂C(O)R⁵, wherein R⁴ and R⁵ are each radicals

25 independently selected from the group consisting of -OH and -OtBu; each non-terminal glutamyl being independently represented by the

formula

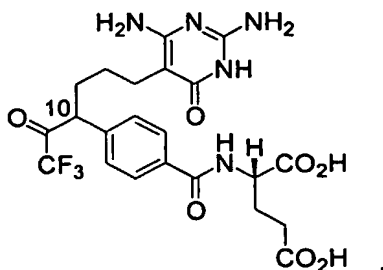
-NHCH(C(O)R⁶)(CH₂)₂C(O)R⁷, wherein R⁶ and R⁷ are each radicals

30 independently selected from the group consisting of -OH, -OtBu, terminal glutamyl, and non-terminal glutamyl;

with a proviso that at least one of R⁶ and R⁷ is either terminal glutamyl or non-terminal glutamyl.

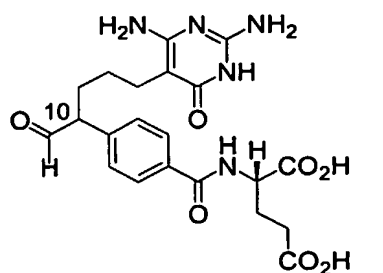
2. A compound according to claim 1 represented by the following structure:

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3. A compound according to claim 1 represented by the following structure:

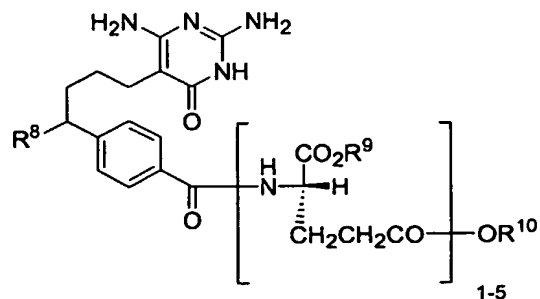
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4. A compound according to claim 1 represented by the following structure:

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wherein

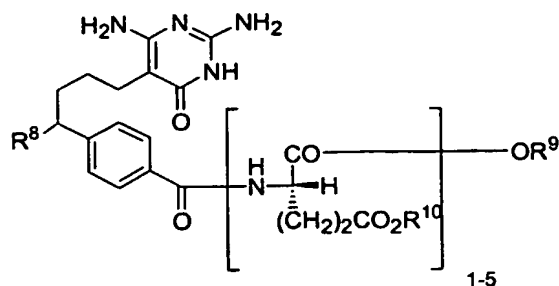
$R^8$  is a radical selected from the group consisting of  $-C(O)H$  and  $-C(O)CF_3$ ; and

$R^9$  and  $R^{10}$  are each a radical independently selected from the group consisting of  $-H$  and  $-tBu$ .

30

5. A compound according to claim 1 represented by the following structure:

5



wherein

10  $R^8$  is a radical selected from the group consisting of  $-C(O)H$  and  $-C(O)CF_3$ ; and

$R^9$  and  $R^{10}$  are each a radical independently selected from the group consisting of  $-H$  and  $-tBu$ .

15 6. A process for inhibiting glycineamide ribonucleotide transformylase comprising the step of contacting the glycineamide ribonucleotide transformylase with an inhibiting concentration of a compound described in claims 1-5.

20 7. A process for inhibiting aminoimidazole carboxamide ribonucleotide transformylase comprising the step of contacting the aminoimidazole carboxamide ribonucleotide transformylase with an inhibiting concentration of a compound described in claims 1-5.